

## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

### **Listing of Claims:**

1-19 (Canceled)

20. (New) A method of performing a handover on a subscriber station in a target base station, the method comprising:

receiving a ranging request message including a base station identifier of a previous serving base station from the subscriber station;

acquiring information of the subscriber station through the base station identifier of the previous serving base station;

transmitting a response message on the ranging request message to the subscriber station;  
and

performing network re-entry on the subscriber station.

21. (New) The method of claim 20, wherein the acquiring comprises:

requesting the information of the subscriber station to the previous serving base station based on the base station identifier of the previous serving base station; and

receiving the information of the subscriber station from the previous serving base station.

22. (New) The method of claim 20, wherein the ranging request message further includes a media access control (MAC) address of the subscriber station.

23. (New) The method of claim 20, wherein a length of the base station identifier of the previous serving base station length is 48 bits.

24. (New) A method of performing a handover in a subscriber station of a communication system, the method comprising:

transmitting a ranging request message including a base station identifier of a previous serving base station to a target base station;

receiving a ranging response message from the target base station that has acquired

information of the subscriber station through the base station identifier of the previous serving base station; and

performing network re-entry through the target base station.

25. (New) The method of claim 24, wherein the ranging request message further includes a media access control (MAC) address of the subscriber station.

26. (New) The method of claim 24, wherein a length of the base station identifier of the previous serving base station is 48 bits.

27. (New) A method of generating a message for a handover in a subscriber station, the method comprising:

generating a ranging request message for transmitting a target base station; and

inserting a base station identifier of a previous serving base station into the ranging request message.

28. (New) The method of claim 27, further comprising inserting a media access control (MAC) address of the subscriber station into the ranging request message.

29. (New) The method of claim 27, wherein the inserting further comprises setting a length of the base station identifier of the previous serving base station to 48 bits.

30. (New) A method of performing a handover on a subscriber station in a target base station, the method comprising:

receiving a ranging request message including a base station identifier of a previous serving base station from the subscriber station;

transmitting a response message on the ranging request message to the subscriber station;

and

performing network re-entry on the subscriber station.

31. (New) The method of claim 30, wherein the ranging request message further includes

a media access control (MAC) address of the subscriber station.

32. (New) The method of claim 30, wherein a length of the base station identifier of the previous serving base station is 48 bits.

33. (New) A method of performing a handover in a subscriber station, the method comprising:

transmitting a ranging request message including a base station identifier of a previous serving base station to a target base station;

receiving a response message on the ranging request message from the target base station; and

performing network re-entry through the target base station.

34. (New) The method of claim 33, wherein the ranging request message further includes a media access control (MAC) address of the subscriber station.

35. (New) The method of claim 33, wherein a length of the base station identifier of the previous serving base station is 48 bits.